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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,447	09/30/2003	Kyoung Su Ha	0465-1054P	2622
2292	7590	06/28/2005	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			WARD, JOHN A	
			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 06/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/673,447	Applicant(s) HA ET AL	
	Examiner John A. Ward	Art Unit 2875	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 35-37 is/are allowed.
- 6) ☒ Claim(s) 5-7, 9, 10, 12, 14, 15 and 23-25 is/are rejected.
- 7) ☒ Claim(s) 8, 11, 13, 16 and 26-34 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 5-7, 9-10, 12, 14 and 15 are rejected under 35 U.S.C. 102(e) as being anticipated by Kin (US 6,064,455).

Regarding claim 5, Kim ('455) discloses a back light unit liquid crystal display having a liquid crystal panel 220, a light guide 204 below the panel, a lamp 202 facing a end surface of the light guide, a lamp housing 201 and a main supporter (not labeled) between the housing and liquid crystal panel.

Regarding claim 6, Kim shows in figure 5 how the main supporter is on the upper surface and near the end surface of the light guide.

Regarding claim 7, Kim shows in figure 5 how the housing is affixed to the main supporter.

Regarding claim 9, Kim shows a first cover shielding 203 and a second cover 205 connected with an upper side of the liquid crystal panel and first cover.

Regarding claim 10, Kim shows in figure 5, how the first cover is connected to the lamp housing.

Regarding claim 12, claim 5 of Kim teaches that the first cover include a thermally insulating material.

Regarding claim 14 shows in figure 5 of Kim how there is no vertical gaps between a lower surface of the upper end portion of the lamp housing and the upper surface of the light guide.

Regarding claim 15 shows in figure 5 of Kim shows how the lower of the surface of the upper end portion of the lamp housing is lower than the upper surface of the light guide.

Claims 23-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim ('455).

Regarding claim 23, Kim discloses a back light unit for a crystal display having liquid crystal display panel 120, a light guide 104 below the display, a lamp housing 110, plurality of optical films 105 above the light guide, a lamp 102 within the housing, and a lamp wire 109.

Regarding claim 24, Kim shows in figure 2, a film 3, located below the light guide.

Regarding claim 25, Kim shows in figure 2 that the lower extension of the housing is located below the light guide.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kim (US 6,016,175), Yuuki et al (US 6,181,071) and Nakayama (US 6,201,586).

Allowable Subject Matter

Claims 35-37 are allowed.

Claims 8, 11, 13, 16 and 26-34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Regarding claim 35 nowhere in the prior art is found all the limitations of the claimed invention including a main supporter on a side of and above the lamp housing, wherein the supporter is thermally insulating.

Claims 36 and 37 are allowed because of its dependency upon claim 35.

The above mention claims above regarding claims objected to because of the main supporter located in the liquid crystal display was not found in the prior art.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to John A. Ward whose telephone number is 571-272-2386. The examiner can normally be reached on Monday - Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAW
June 23, 2005



JOHN ANTHONY WARD
PRIMARY EXAMINER